

DATA MANIPULATION PERSISTING METHOD...

Goto et al.

Greer, Burns & Crain, Ltd. (Patrick Burns)

Ref. No. 1118.68269

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### FIG.2

#### **Database**

#### Product record table

Product code	Product name	Effective- warehouse number
101	Apple	3
102	Orange	2

Stock record table		
Product code	Warehouse number	Quantity of stock
101	1010	500
101	1020	500
101	1030	600
102	1010	600
102	1020	800

### FIG.3

#### **Definitions of database**

Record name: Comm (Product record)

Data field name: Code (Product code), Data type: Integer

Data field name: Name (Product name), Data type: Character string

Data field name : EffWare (Effective-warehouse number), Data type : Integer

Record name : Comm (Stock record)

Data field name: Code (Product code), Data type: Integer
Data field name: Ware (Warehouse number), Data type: Integer
Data field name: Current (Quantity of stock), Data type: Integer

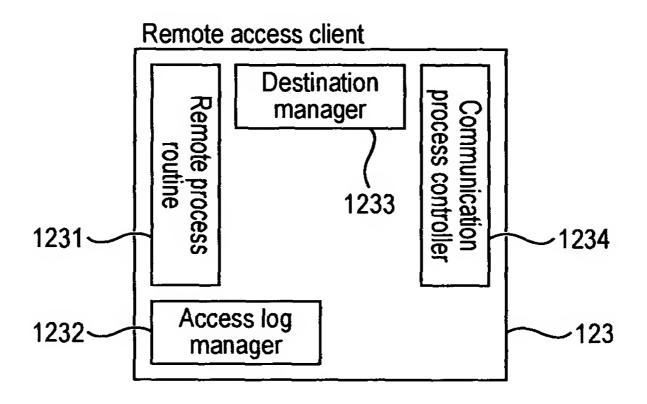
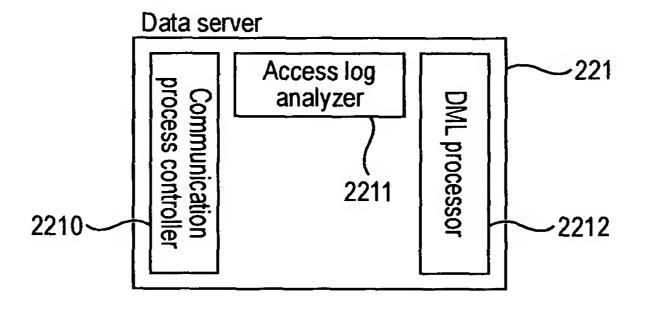


FIG.5



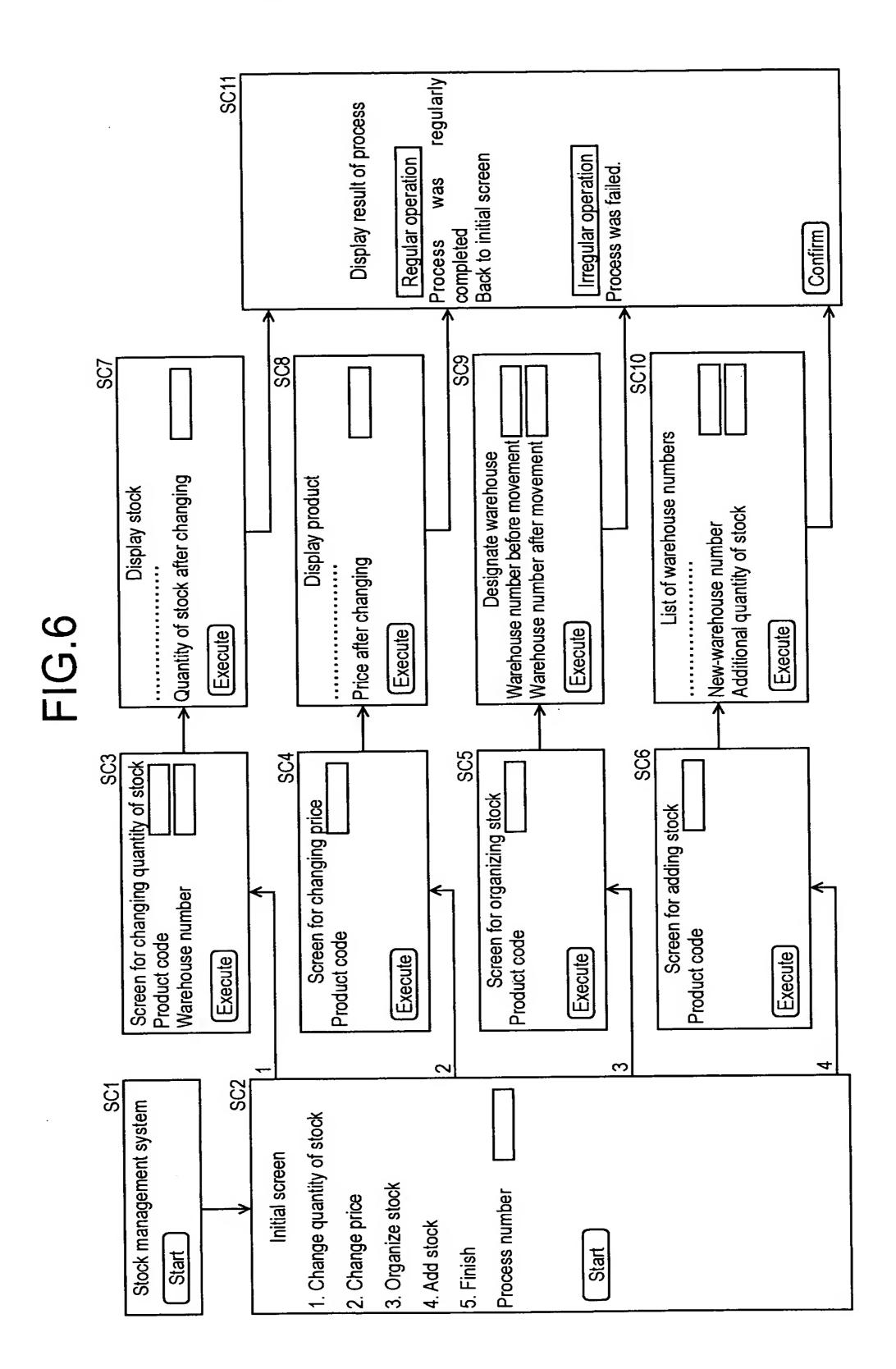
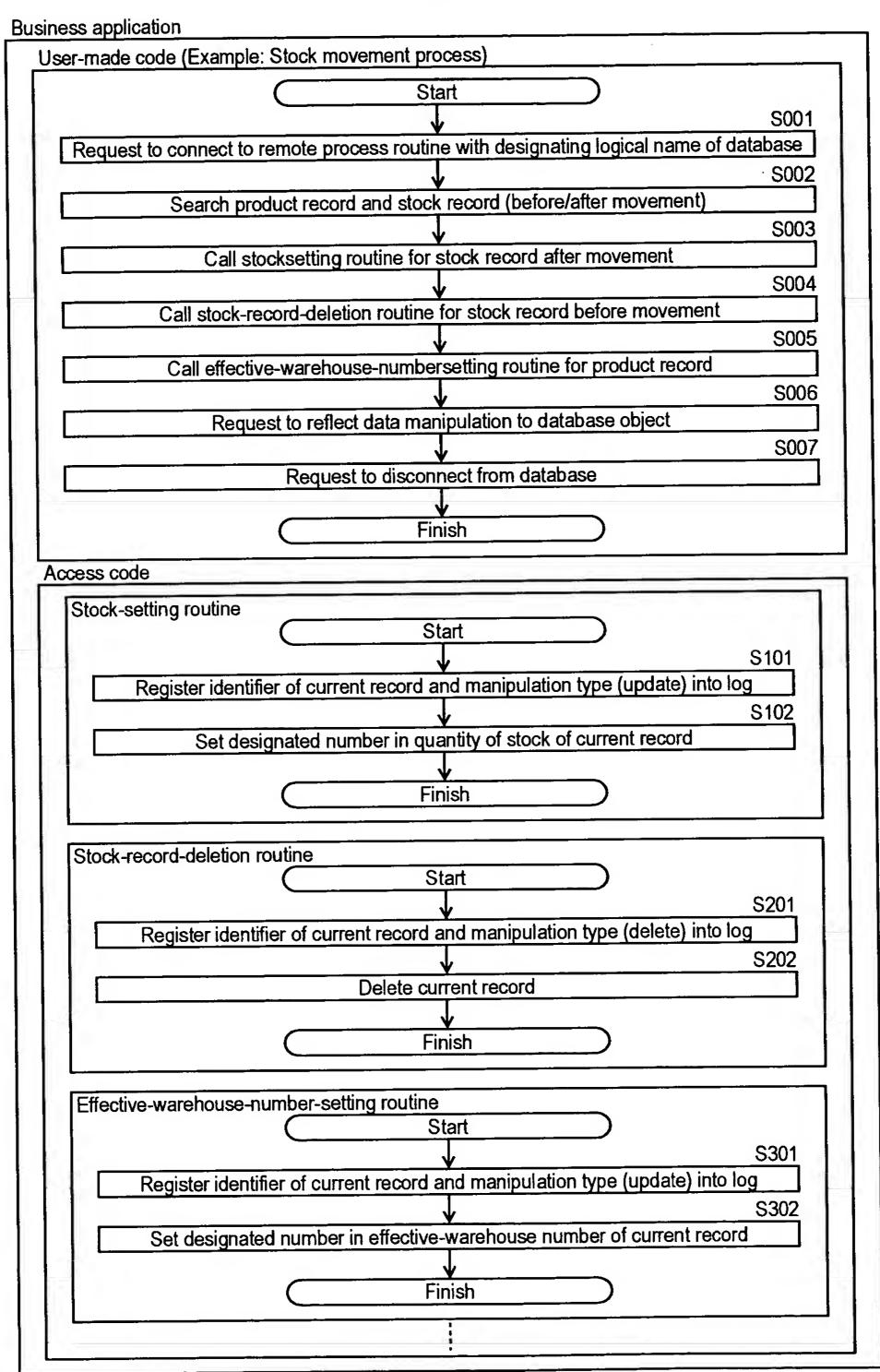


FIG.7



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## FIG.8

Management table

Logical name of database	Location information about database
DB001	ADRS001
	ADRS002
	ADRS003
DB002	ADRS004
	ADRS005

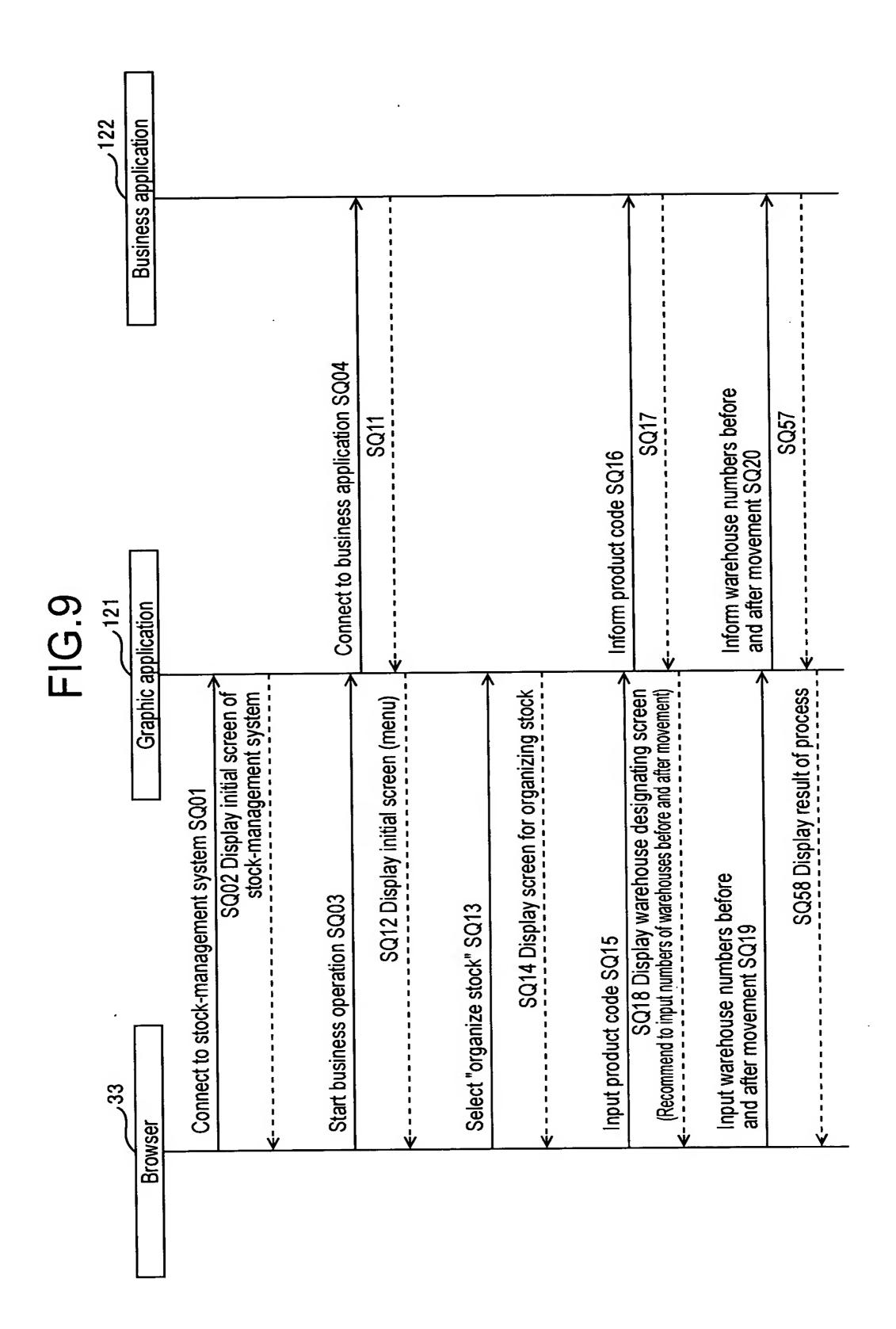
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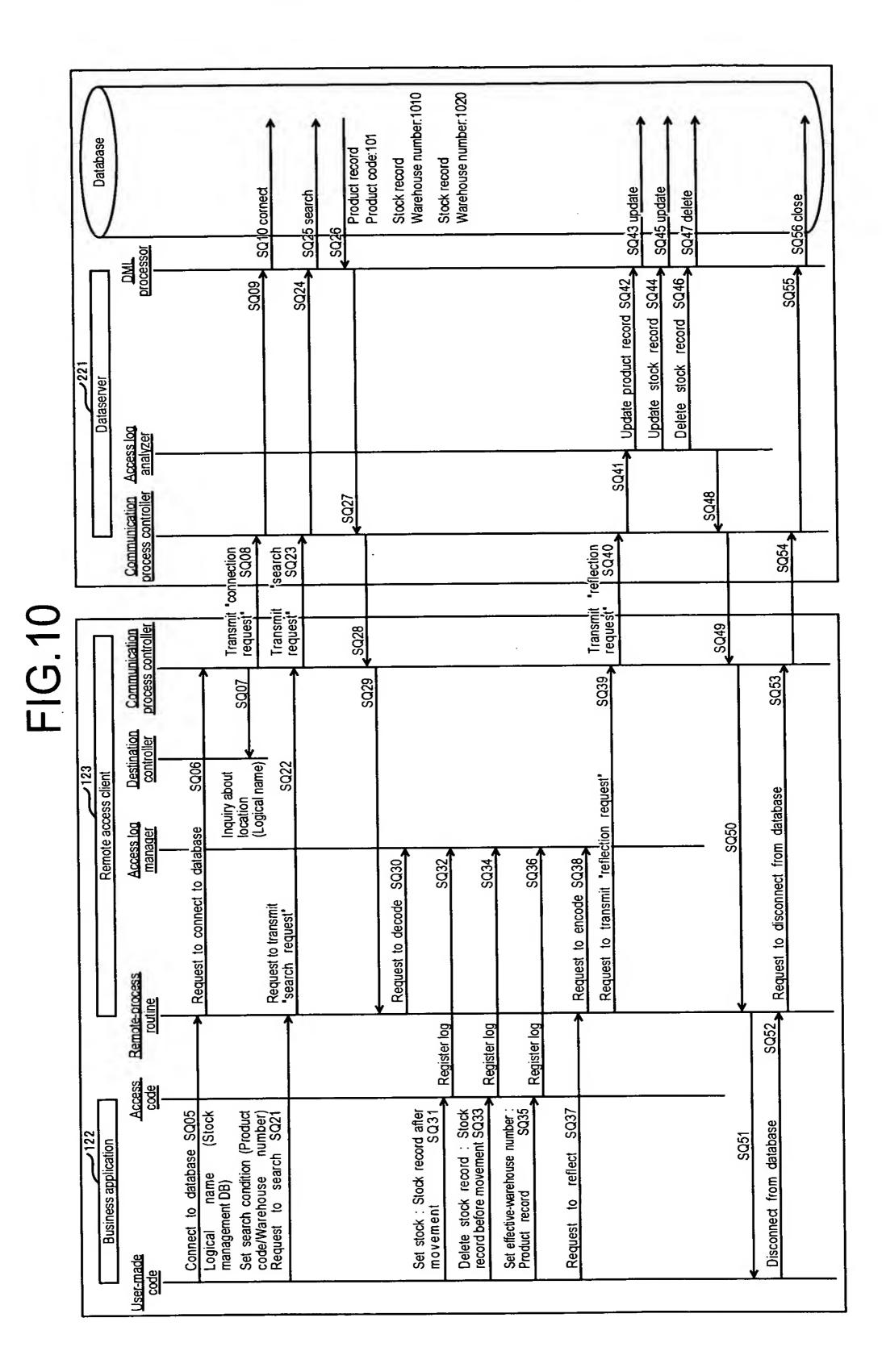
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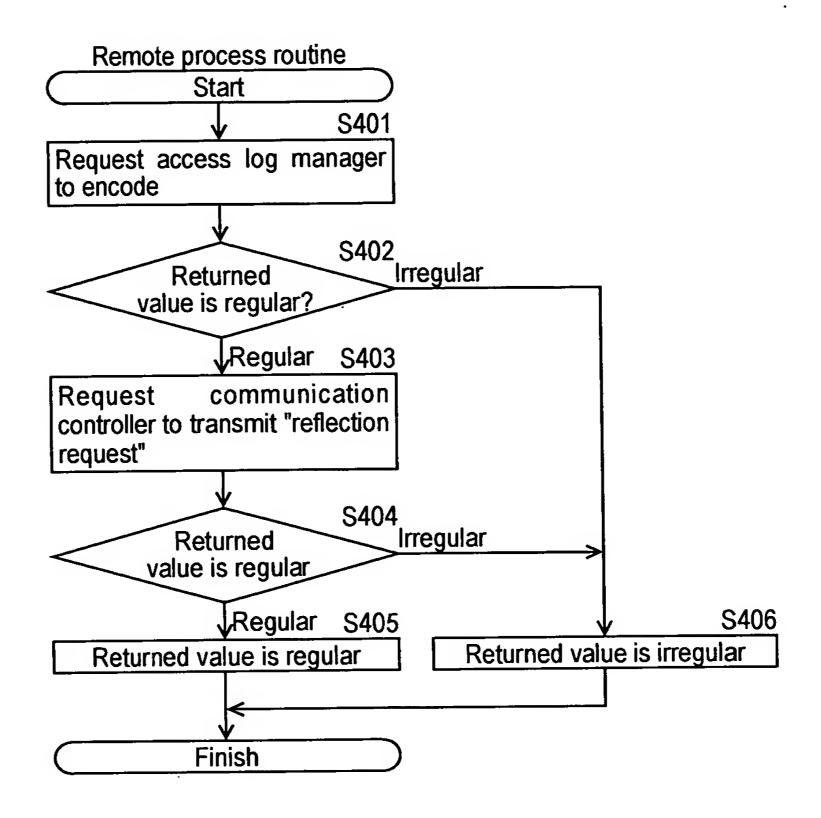
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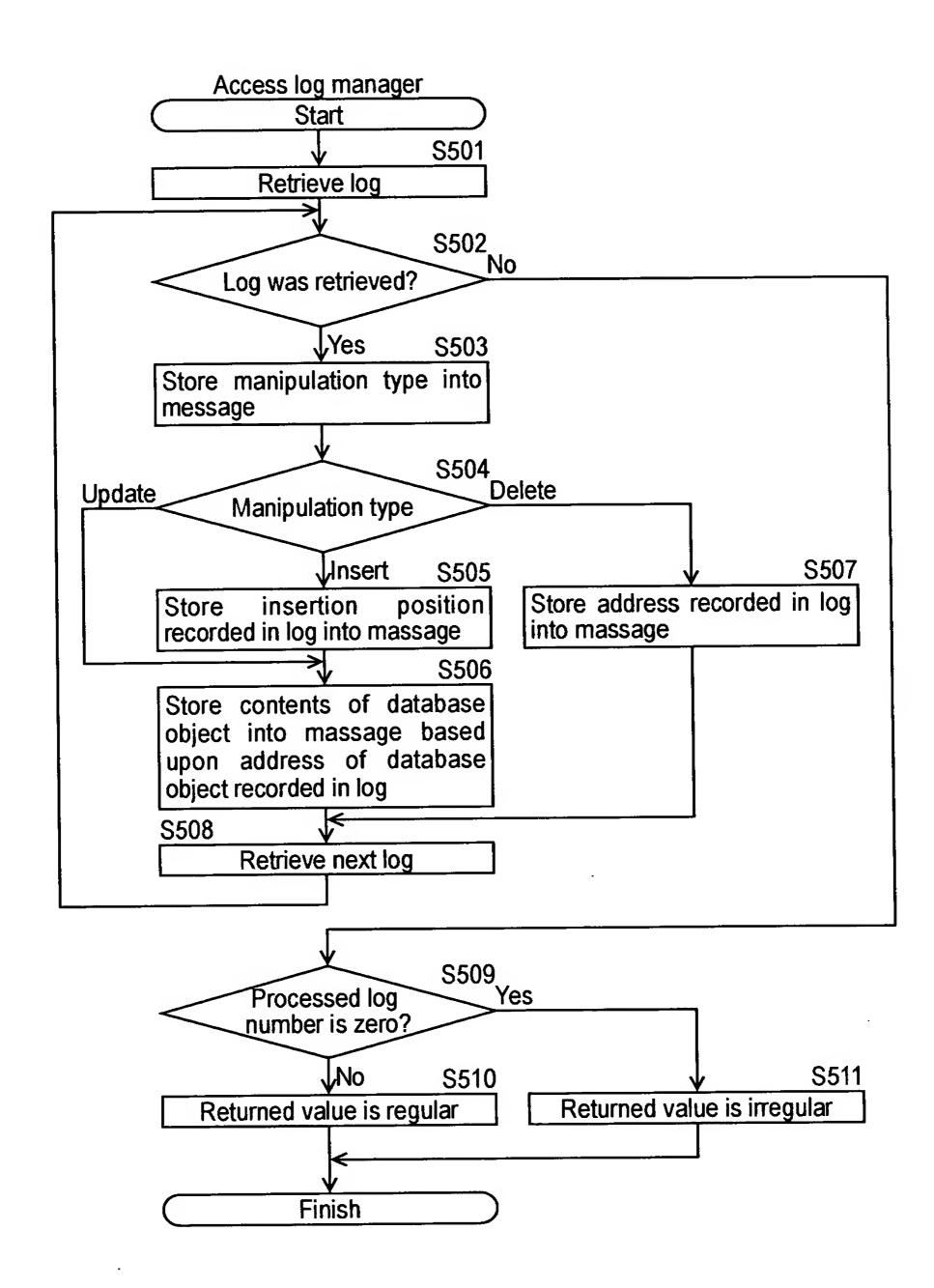
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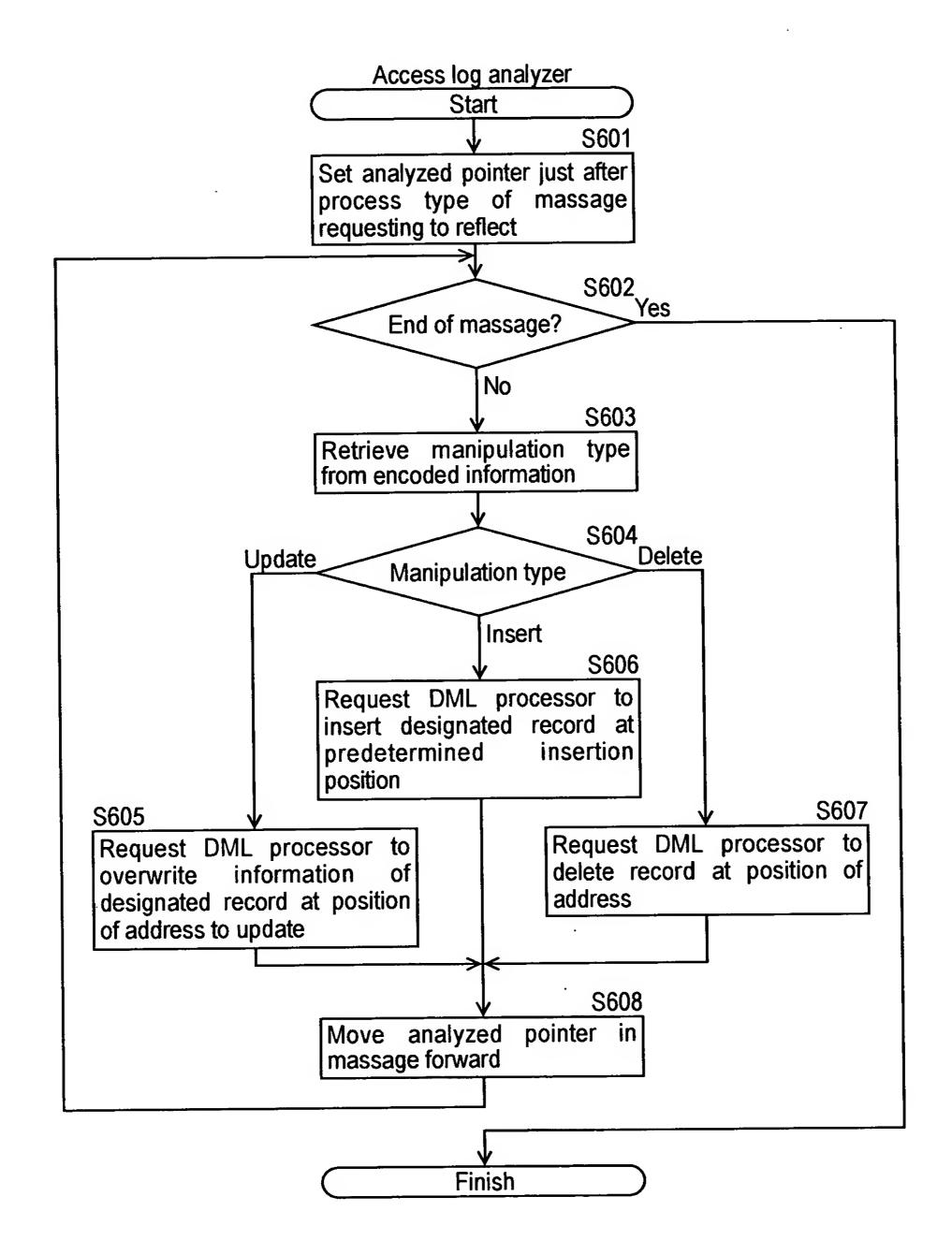
**FIG.11** 



**FIG.12** 



**FIG.13** 



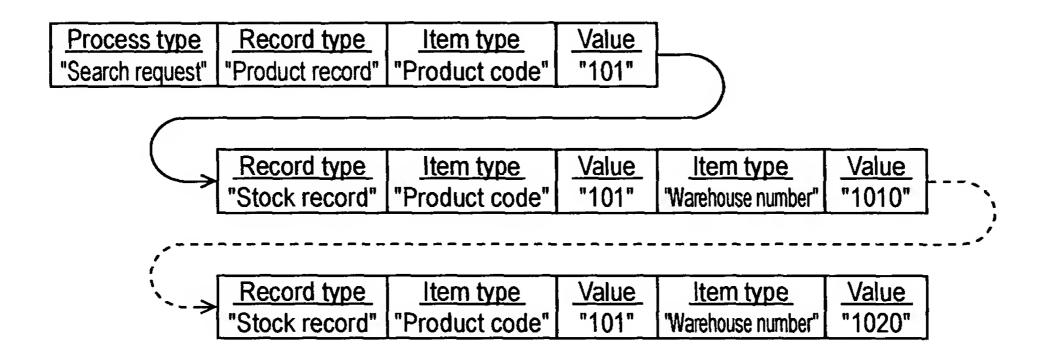
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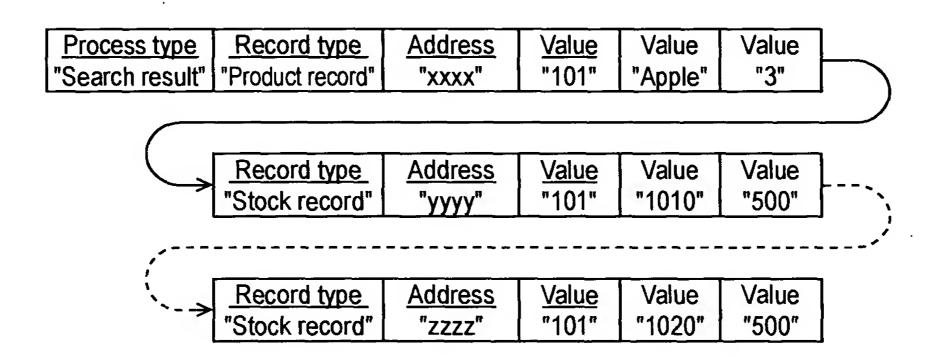
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**FIG.15** 



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		Manipulation type in process		
		Update	Insert	Delete
Registered manipulation type	No log		Register new log whose type is insert	
	Update	Update process only/no need to register	· .	Register new log whose type is delete/abandon update log
	Insert	Update process only/no need to register	•	A b a n d o n registered log
	Delete	Error process because of sequence error	l	l. •

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## FIG.17

Manipulation type	Address of database object
"Update"	"qqqq"

## FIG.18

Manipulation type	Address
"Delete"	"ZZZZ"

## FIG.19

Manipulation type	Address of database object
"Update"	"pppp"

Manipulation type	Insertion position	Address of database object
"Insert"	"iii"	"ssss"

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FIG.21

